

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1828692	copper or cu	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L2	19	iminophosphonate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L3	1	L2 same L1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L4	13	L2 and L1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L5	221	558/87.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 14:16
L6	0	L2 and L5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L7	34	iminophosphon\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L8	22	((copper or cu) and iminophosphon\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L9	4	((copper or cu) and iminophosphon\$). CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L10	3	"2003260363"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:59
L11	108	558/145.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 14:16

EAST Search History

L12	1	I2 and I11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 14:16
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Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	3	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	4	AUG 13	CA/Capplus enhanced with additional kind codes for granted patents
NEWS	5	AUG 20	CA/Capplus enhanced with CAS indexing in pre-1907 records
NEWS	6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	7	AUG 27	USPATOLD now available on STN
NEWS	8	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	9	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	10	SEP 13	FORIS renamed to SOFIS
NEWS	11	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	12	SEP 17	CA/Capplus enhanced with printed CA page images from 1967-1998
NEWS	13	SEP 17	Capplus coverage extended to include traditional medicine patents
NEWS	14	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	15	OCT 02	CA/Capplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	16	OCT 19	BEILSTEIN updated with new compounds
NEWS	17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	18	NOV 19	WPIX enhanced with XML display format
NEWS	19	NOV 30	ICSD reloaded with enhancements
NEWS	20	DEC 04	LINPADOCDB now available on STN
NEWS	21	DEC 14	BEILSTEIN pricing structure to change
NEWS	22	DEC 17	USPATOLD added to additional database clusters
NEWS	23	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	24	DEC 17	DGENE now includes more than 10 million sequences
NEWS	25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	26	DEC 17	MEDLINE and LMEMLINE updated with 2008 MeSH vocabulary
NEWS	27	DEC 17	CA/Capplus enhanced with new custom IPC display formats
NEWS	28	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	29	JAN 02	STN pricing information for 2008 now available
NEWS	30	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS LOGIN Welcome Banner and News Items

NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3

DICTIONARY FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.46	0.67

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 07:38:30 ON 22 JAN 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 07:59:44 ON 22 JAN 2008

FILE 'REGISTRY' ENTERED AT 07:59:44 ON 22 JAN 2008

COPYRIGHT (C) 2008 American Chemical Society (ACS)

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

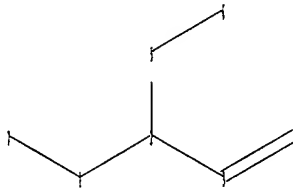
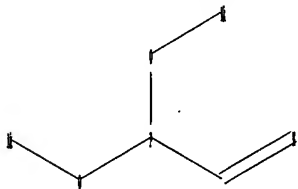
FULL ESTIMATED COST

0.46

0.67

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10591964\10591964 iminophosphonate.str



chain nodes :

1 2 3 4 5 6 7

chain bonds :

1-2 1-7 2-3 2-5 3-4 5-6

exact/norm.bonds :

1-2 1-7 2-5 3-4 5-6

exact bonds :

2-3

Match level :

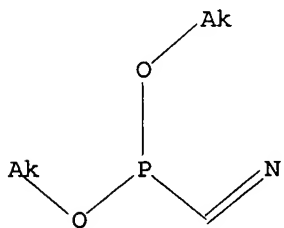
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam

SAMPLE SEARCH INITIATED 08:00:57 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2737 TO ITERATE

73.1% PROCESSED 2000 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 51602 TO 57878

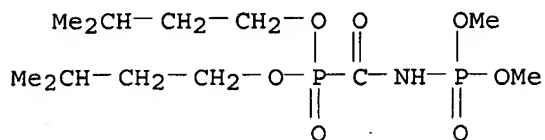
PROJECTED ANSWERS: 1562 TO 2816

L2

50 SEA SSS SAM L1

=> d scan

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphoramidic acid, (phosphonocarbonyl)-, diisopentyl dimethyl ester
(6CI)
MF C13 H29 N O7 P2

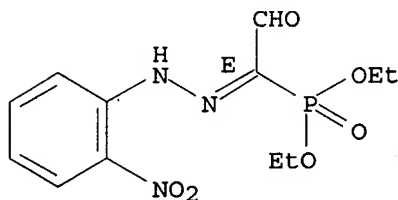


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

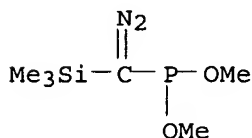
L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, [1-[(2-nitrophenyl)hydrazono]-2-oxoethyl]-, diethyl
ester, (E)- (9CI)
MF C12 H16 N3 O6 P

Double bond geometry as shown.

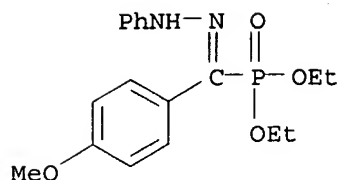


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonous acid, [diazo(trimethylsilyl)methyl]-, dimethyl ester (9CI)
MF C6 H15 N2 O2 P Si



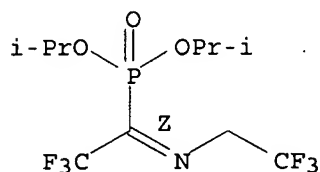
L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, [(4-methoxyphenyl)(phenylhydrazono)methyl]-, diethyl
ester (9CI)
MF C18 H23 N2 O4 P



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

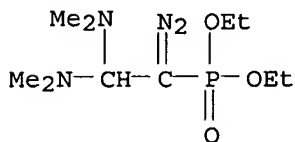
L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, [(1Z)-2,2,2-trifluoro-1-[(2,2,2-trifluoroethyl)imino]ethyl]-, bis(1-methylethyl) ester (9CI)
 MF C10 H16 F6 N O3 P

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, [1-diazo-2,2-bis(dimethylamino)ethyl]-, diethyl ester (9CI)
 MF C10 H23 N4 O3 P



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):

Uploading

'UPLOAD SSTN' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1): C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10591964\10591964 H FIXED iminophosphonate.str

YOU WISH TO SCAN? (1):

'0 SZ' @-#&1~" J*' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):

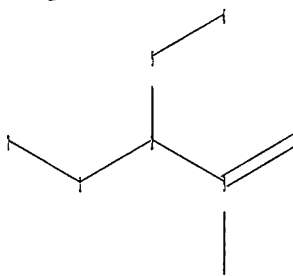
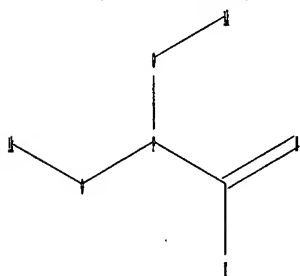
'0 SZ' @-#&1~" J*' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
 HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
 '0 SZ' @-#&l~" J*' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
 HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
 '0 SZ' @-#&l~" J*' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
 HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
 Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10591964\10591964 H FIXED iminophosphonate.str

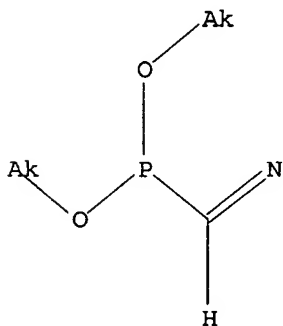


chain nodes :
 1 2 3 4 5 6 7 8
 chain bonds :
 1-2 1-7 2-3 2-5 3-4 3-8 5-6
 exact/norm bonds :
 1-2 1-7 2-5 3-4 5-6
 exact bonds :
 2-3 3-8

Hydrogen count :
 3: >= minimum 1
 Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS

L3 STRUCTURE UPLOADED

=> d 13
 L3 HAS NO ANSWERS
 L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l3 sss sam

SAMPLE SEARCH INITIATED 08:04:27 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2737 TO ITERATE

73.1% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

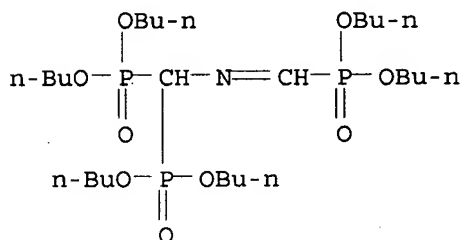
1 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 51602 TO 57878
PROJECTED ANSWERS: 1 TO 97

L4 1 SEA SSS SAM L3

=> d scan

L4 1 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, [[[diphosphonomethylene)amino]methyl]-, hexabutyl ester
(7CI)
MF C26 H56 N O9 P3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l3 sss full

FULL SEARCH INITIATED 08:05:32 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 55632 TO ITERATE

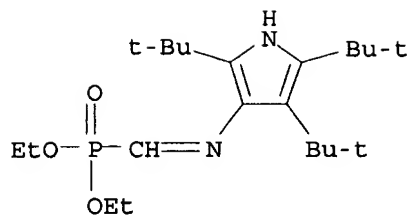
100.0% PROCESSED 55632 ITERATIONS
SEARCH TIME: 00.00.01

46 ANSWERS

L5 46 SEA SSS FUL L3

=> d scan

L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, [[[2,4,5-tris(1,1-dimethylethyl)-1H-pyrrol-3-yl]imino]methyl]-, diethyl ester (9CI)
MF C21 H39 N2 O3 P

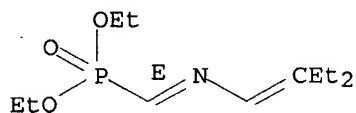


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

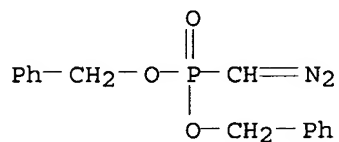
L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, [(E)-[(2-ethyl-1-butenyl)imino]methyl]-, diethyl ester (9CI)
 MF C11 H22 N O3 P

Double bond geometry as shown.

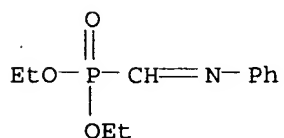


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, (diazomethyl)-, bis(phenylmethyl) ester (9CI)
 MF C15 H15 N2 O3 P



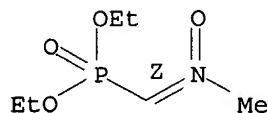
L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, [(phenylimino)methyl]-, diethyl ester (9CI)
 MF C11 H16 N O3 P



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

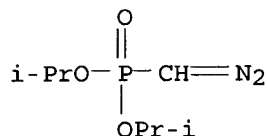
L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, P-[(Z)-(methyloxidoimino)methyl]-, diethyl ester
 MF C6 H14 N O4 P

Double bond geometry as shown.



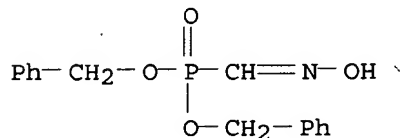
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, P-(diazomethyl)-, bis(1-methylethyl) ester
 MF C7 H15 N2 O3 P



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

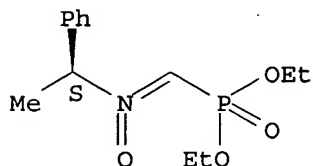
L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, [(hydroxyimino)methyl]-, bis(phenylmethyl) ester (9CI)
 MF C15 H16 N O4 P



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

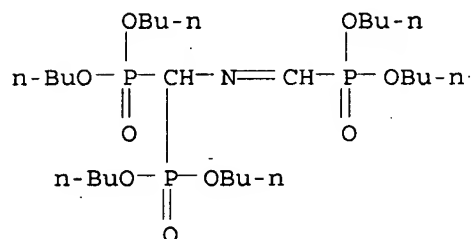
L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, P-[oxido[(1S)-1-phenylethyl]imino]methyl]-, diethyl ester
 MF C13 H20 N O4 P

Absolute stereochemistry.
 Double bond geometry unknown.



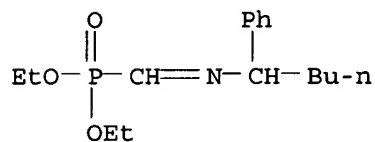
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, [[[diphosphonomethylene)amino]methyl]-, hexabutyl ester (7CI)
MF C26 H56 N O9 P3



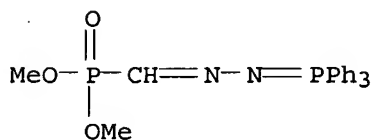
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, [[[1-phenylpentyl)imino]methyl]-, diethyl ester (9CI)
MF C16 H26 N O3 P



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

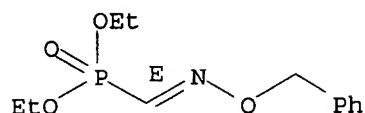
L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, [[[triphenylphosphoranylidene)hydrazono]methyl]-, dimethyl ester (9CI)
MF C21 H22 N2 O3 P2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

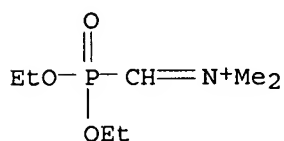
L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, [[[phenylmethoxy)imino]methyl]-, diethyl ester, (E)- (9CI)
MF C12 H18 N O4 P

Double bond geometry as shown.

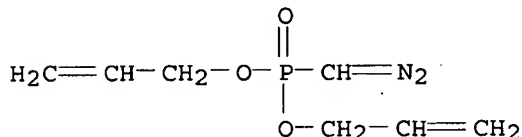


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

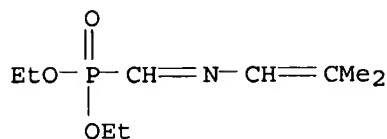
L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Methanaminium, N-[(diethoxyphosphinyl)methylene]-N-methyl- (9CI)
MF C7 H17 N O3 P
CI COM



L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, (diazomethyl)-, di-2-propenyl ester (9CI)
MF C7 H11 N2 O3 P

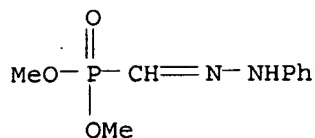


L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, [[[2-methyl-1-propenyl]imino]methyl]-, diethyl ester (9CI)
MF C9 H18 N O3 P



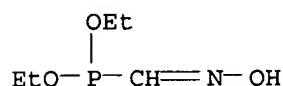
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Phosphonic acid, P-[(2-phenylhydrazinyldene)methyl]-, dimethyl ester
MF C9 H13 N2 O3 P



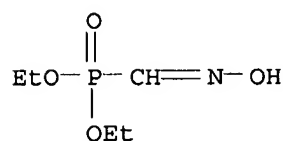
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonous acid, [(hydroxyimino)methyl]-, diethyl ester (9CI)
 MF C5 H12 N O3 P



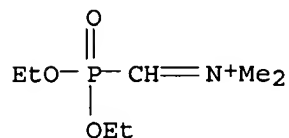
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, [(hydroxyimino)methyl]-, diethyl ester (9CI)
 MF C5 H12 N O4 P



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

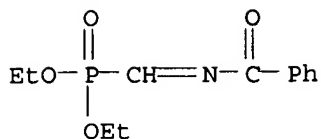
L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Methanaminium, N-[(diethoxyphosphinyl)methylene]-N-methyl-, chloride (9CI)
 MF C7 H17 N O3 P . Cl



● Cl⁻

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

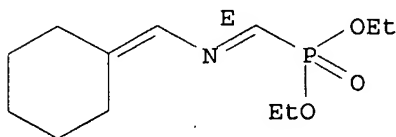
L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, [(benzoylimino)methyl]-, diethyl ester (9CI)
 MF C12 H16 N O4 P



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 46 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphonic acid, [(E)-[(cyclohexylidenemethyl)imino]methyl]-, diethyl
 ester (9CI)
 MF C12 H22 N O3 P

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):file caplus
 'FILE CAPLUS' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to
 see. To end the display, enter "NONE", "N", "0", or "END".
 HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
182.96	183.17

FULL ESTIMATED COST

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FILE COVERS 1907 - 22 Jan 2008 VOL 148 ISS 4
 FILE LAST UPDATED: 21 Jan 2008 (20080121/ED)

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<http://www.cas.org/infopolicy.html>

=> 15

L6 226 L5

=> copper or Cu

970463 COPPER

473 COPPERS

970534 COPPER

(COPPER OR COPPERS)

840427 CU.

5108 CUS

842734 CU

(CU OR CUS)

L7 1261610 COPPER OR CU

=> 16 and 17

L8 20 L6 AND L7

=> triflate

16623 TRIFLATE

2580 TRIFLATES

L9 17342 TRIFLATE

(TRIFLATE OR TRIFLATES)

=> 18 and 19

L10 6 L8 AND L9

=> d l10 1-6 ti

L10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

TI Indium triflate catalyzed reaction of diisopropyl
diazomethylphosphonate with imines as a new approach to cis- and
trans-aziridine-2-phosphonates

L10 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

TI Silver(I) Triflate-Catalyzed Direct Synthesis of N-PMP Protected
 α -Aminopropargylphosphonates from Terminal Alkynes

L10 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

TI High turnover frequency observed in catalytic enantioselective additions
of enecarbamates and enamides to iminophosphonates

L10 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

TI Catalytic asymmetric synthesis of cyclopropylphosphonates - catalysts'
scope and reactivity

L10 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

TI Catalytic interaction of diisopropyl diazomethylphosphonate with
N-benzylidenephénylamine

L10 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

TI Enantiopure N-Acyldihydropyridones as Synthetic Intermediates: Asymmetric
Syntheses of Indolizidine Alkaloids (-)-205A, (-)-207A, and (-)-235B

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

13.32

196.49

FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3
DICTIONARY FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d his

(FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008)

FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008

L1 STRUCTURE UPLOADED
L2 50 SEARCH L1 SSS SAM
L3 STRUCTURE UPLOADED
L4 1 SEARCH L3 SSS SAM
L5 46 SEARCH L3 SSS FULL

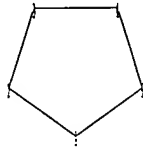
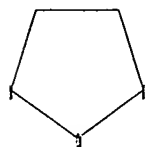
FILE 'CAPLUS' ENTERED AT 08:06:10 ON 22 JAN 2008

L6 226 L5
L7 1261610 COPPER OR CU
L8 20 L6 AND L7
L9 17342 TRIFLATE
L10 6 L8 AND L9

FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008

=> save temp l5 rawpos/a
ANSWER SET L5 HAS BEEN SAVED AS 'RAWPOS/A'

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10591964\10591964 copper reagent.str



ring nodes :
1 2 3 4 5
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5

Match level :

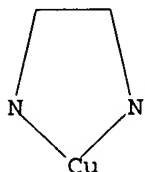
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom

L11 STRUCTURE UPLOADED

=> d l11

L11 HAS NO ANSWERS

L11 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l11 sss sam

SAMPLE SEARCH INITIATED 08:13:28 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 3732 TO ITERATE

53.6% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 70977 TO 78303

PROJECTED ANSWERS: 44838 TO 50700

L12 50 SEA SSS SAM L11

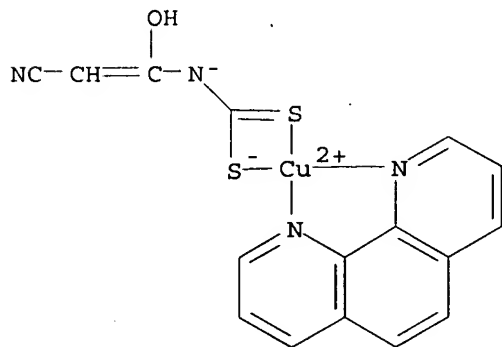
=> d scan

L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN INDEX NAME NOT YET ASSIGNED

MF C16 H10 Cu N4 O S2

CI CCS

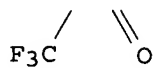
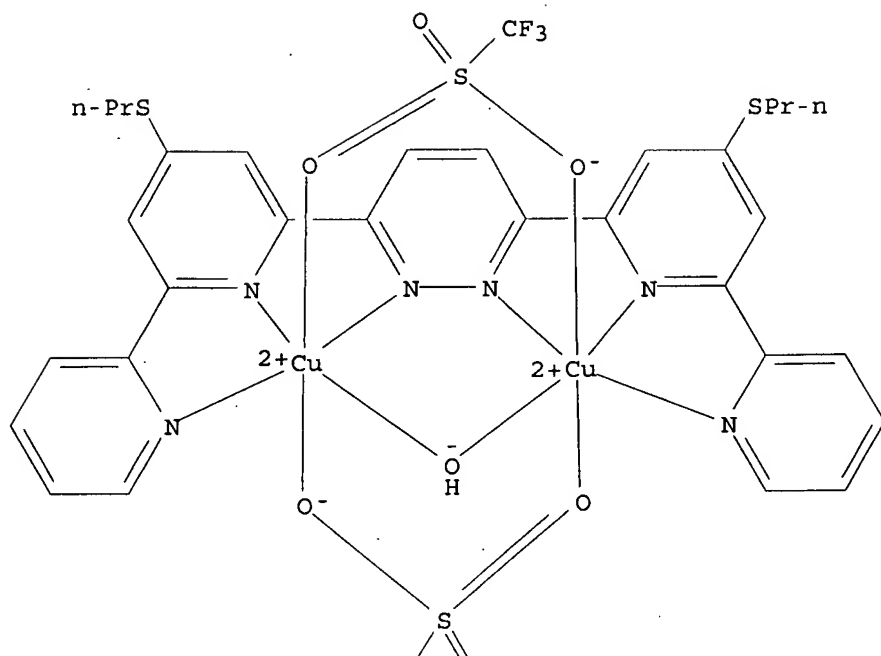


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

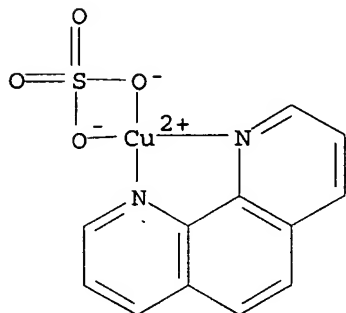
L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN INDEX NAME NOT YET ASSIGNED

MF C32 H29 Cu2 F6 N6 O7 S4



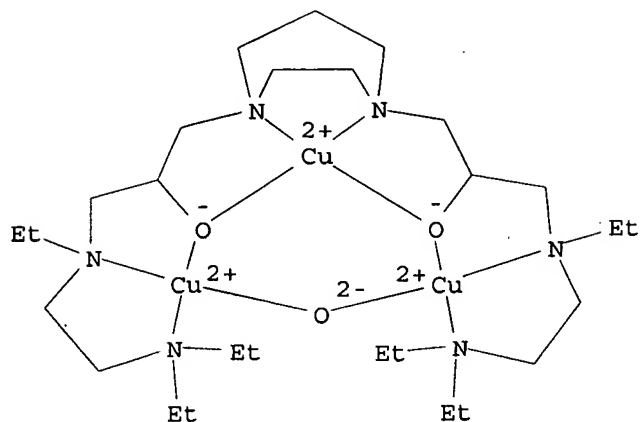
L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN INDEX NAME NOT YET ASSIGNED
 MF C12 H8 Cu N2 O4 S . 2 H2 O
 CI CCS



● 2 H₂O

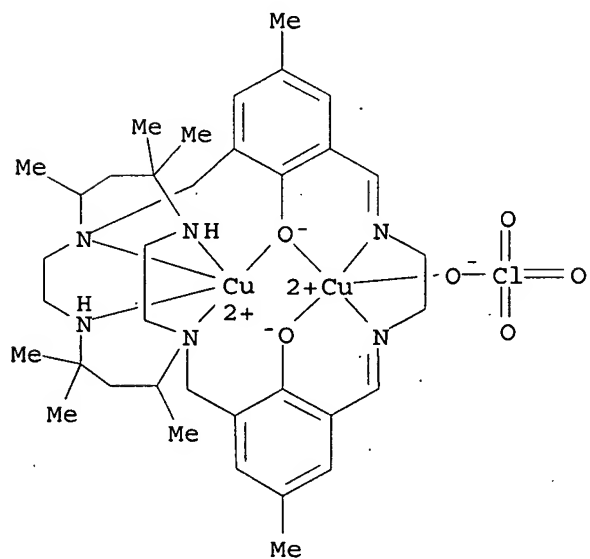
L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN INDEX NAME NOT YET ASSIGNED
 MF C27 H58 Cu3 N6 O3
 CI CCS, COM

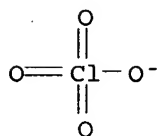


L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN INDEX NAME NOT YET ASSIGNED
 MF C36 H54 Cl Cu2 N6 O6 . Cl O4

CM 1



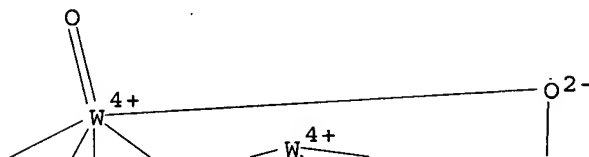
CM 2

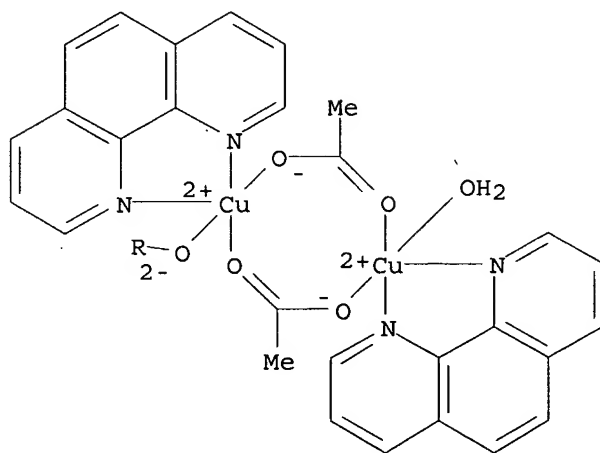
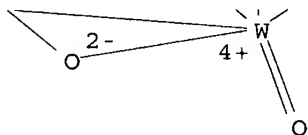
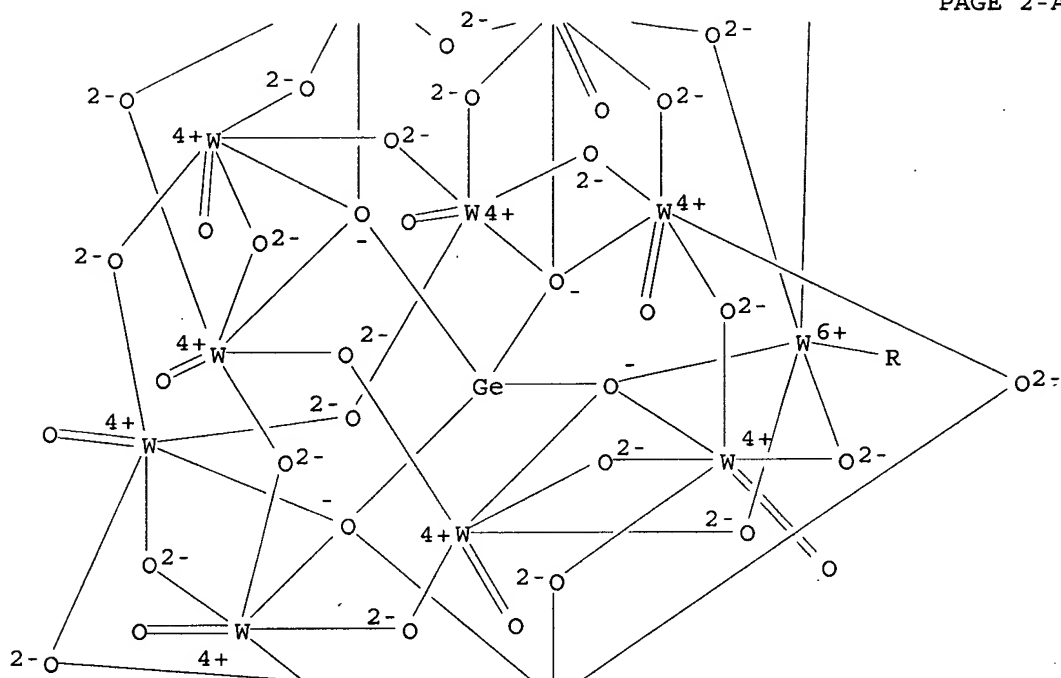


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Tungstate(2-), [bis[μ-(acetato-κO:κO')]aquabis(1,10-
 phenanthroline-κN1,κN10)dicutrate]germanatepentacosa-μ-
 oxotetra-μ4-oxoundeca-oxododeca-, stereoisomer
 MF C28 H24 Cu2 Ge N4 O45 W12
 CI CCS, COM

PAGE 1-A





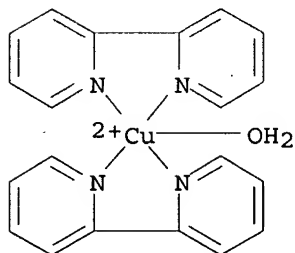
L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Copper(2+), aquabis(2,2'-bipyridine-κN1,κN1')-, (SP-5-22)-,
 hydrogen stereoisomer of bis[μ5-[25,26-di(hydroxy-κO)-27,28-
 di(hydroxy-κO:κO)-2,8,14,20-tetrathiapentacyclo[19.3.1.13,7.19

,13,115,19]octacos-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-5,11,17,23-tetrasulfonato(8-)- κ O5: κ S2: κ S8:.kap
 pa.S14: κ S20]] [hexakis(2,2'-bipyridine- κ N1, κ N1')tetraçupr
 ate]triargentate(5-), hydrate (1:3:1:31)

MF C108 H64 Ag3 Cu4 N12 O32 S16 . C20 H18 Cu N4 O . 31 H2 O . 3 H

CM 1

CM 2



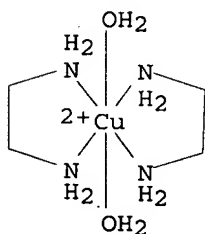
CM 3

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

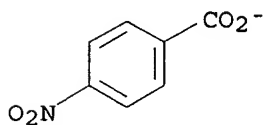
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Copper(2+), diaquabis(1,2-ethanediamine- κ N1, κ N2)-, (OC-6-12)-,
 4-nitrobenzoate (1:2)
 MF C7 H4 N O4 . 1/2 C4 H20 Cu N4 O2

CM 1



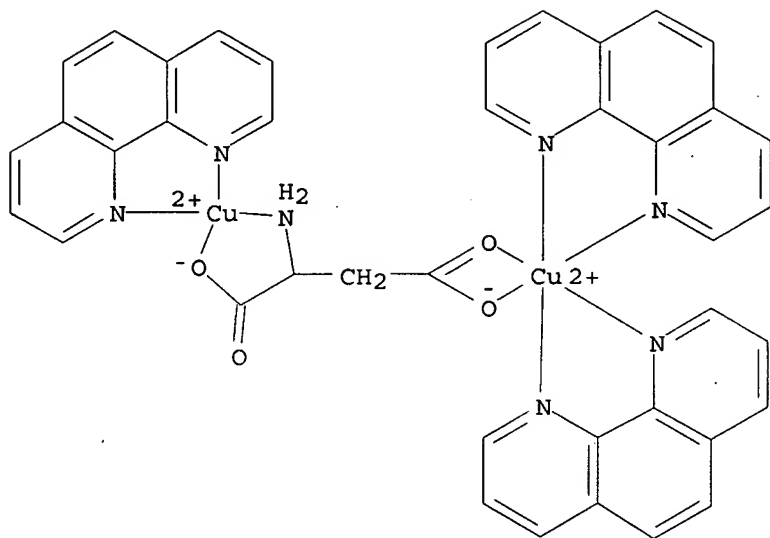
CM 2



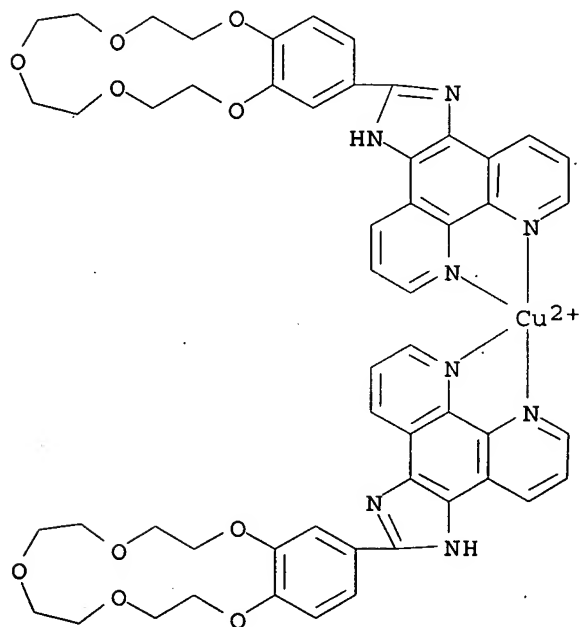
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Copper(2+), [μ -[aspartato(2-)- κ N, κ O1: κ O4, κ O'4]]

tris(1,10-phenanthroline-κN1,κN10)di-
 MF C40 H29 Cu2 N7 O4
 CI CCS, COM



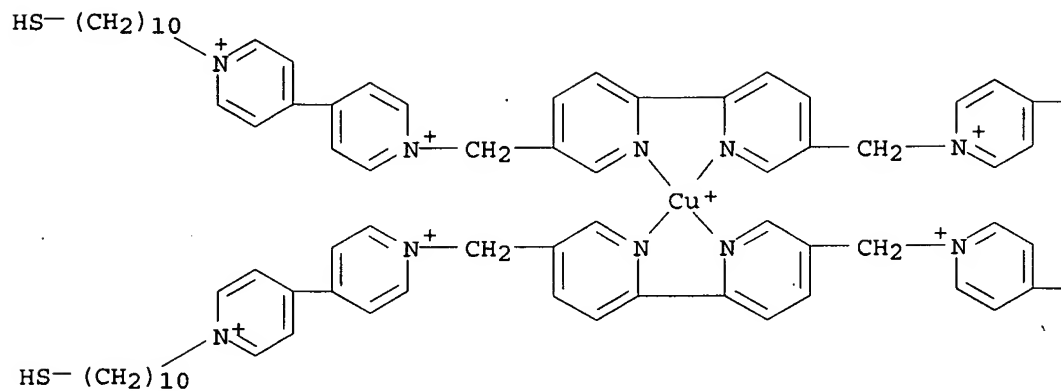
L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN INDEX NAME NOT YET ASSIGNED
 MF C54 H52 Cu N8 O10
 CI CCS, COM



L12 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Copper(9+), bis[1,1'-[([2,2'-bipyridine]-5,5'-diyl-
 κN1,κN1')]bis(methylene)]bis[1'-(10-mercaptodecyl)-4,4'-

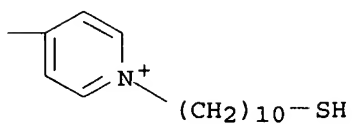
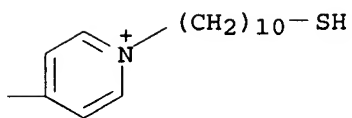
bipyridinium]]-, chloride (1:9), (T-4)-
 MF C104 H136 Cu N12 S4 . 9 Cl
 CI CCS

PAGE 1-A



● 9 Cl⁻

PAGE 1-B



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d his

(FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008)

FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008

L1 STRUCTURE UPLOADED
 L2 50 SEARCH L1 SSS SAM
 L3 STRUCTURE UPLOADED
 L4 1 SEARCH L3 SSS SAM
 L5 46 SEARCH L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 08:06:10 ON 22 JAN 2008

L6 226 L5
 L7 1261610 COPPER OR CU
 L8 20 L6 AND L7

L9 17342 TRIFLATE
L10 6 L8 AND L9

FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008

SAVE TEMP L5 RAWPOS/A
L11 STRUCTURE UPLOADED
L12 50 SEARCH L11 SSS SAM

=> search l11 sss full
FULL SEARCH INITIATED 08:14:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 74478 TO ITERATE

100.0% PROCESSED 74478 ITERATIONS 47480 ANSWERS
SEARCH TIME: 00.00.01

L13 47480 SEA SSS FUL L11

=> save temp l13 rawcats/a
ANSWER SET L13 HAS BEEN SAVED AS 'RAWCATS/A'

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	181.58	378.07

FILE 'CAPLUS' ENTERED AT 08:17:07 ON 22 JAN 2008
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FILE LAST UPDATED: 21 Jan 2008 (20080121/ED)

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=> l13
L14 16613 L13

=> d his

(FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008)

FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008

L1 STRUCTURE UPLOADED
L2 50 SEARCH L1 SSS SAM
L3 STRUCTURE UPLOADED
L4 1 SEARCH L3 SSS SAM
L5 46 SEARCH L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 08:06:10 ON 22 JAN 2008
L6 226 L5

L7 1261610 COPPER OR CU
L8 20 L6 AND L7
L9 17342 TRIFLATE
L10 6 L8 AND L9

FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008

SAVE TEMP L5 RAWPOS/A
L11 STRUCTURE UPLOADED
L12 50 SEARCH L11 SSS SAM
L13 47480 SEARCH L11 SSS FULL
SAVE TEMP L13 RAWCATS/A

FILE 'CAPLUS' ENTERED AT 08:17:07 ON 22 JAN 2008

L14 16613 L13
=> 16 and 114
L15 0 L6 AND L14

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.44	379.51

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:18:45 ON 22 JAN 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 08:49:46 ON 22 JAN 2008
FILE 'CAPLUS' ENTERED AT 08:49:46 ON 22 JAN 2008
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.44	379.51

=> d his

(FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008)

FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008

L1 STRUCTURE UPLOADED
L2 50 SEARCH L1 SSS SAM
L3 STRUCTURE UPLOADED
L4 1 SEARCH L3 SSS SAM
L5 46 SEARCH L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 08:06:10 ON 22 JAN 2008

L6 226 L5
L7 1261610 COPPER OR CU
L8 20 L6 AND L7
L9 17342 TRIFLATE
L10 6 L8 AND L9

FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008
SAVE TEMP L5 RAWPOS/A

L11 STRUCTURE UPLOADED
L12 50 SEARCH L11 SSS SAM
L13 47480 SEARCH L11 SSS FULL
SAVE TEMP L13 RAWCATS/A

FILE 'CAPLUS' ENTERED AT 08:17:07 ON 22 JAN 2008

L14 16613 L13
L15 0 L6 AND L14

=> enol?
L16 50041 ENOL?

=> 18 and 116
L17 2 L8 AND L16

=> d 117 1- 3
2 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):end

=> d 117 1- 2 ti
YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI High turnover frequency observed in catalytic enantioselective additions
of enecarbamates and enamides to iminophosphonates

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI Catalytic asymmetric synthesis of α -amino phosphonates using
enantioselective carbon-carbon bond-forming reactions

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI Catalytic asymmetric synthesis of α -amino phosphonates using
enantioselective carbon-carbon bond-forming reactions

=> d 117 2 ti fbib abs

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI Catalytic asymmetric synthesis of α -amino phosphonates using
enantioselective carbon-carbon bond-forming reactions
AN 2004:369459 CAPLUS
DN 141:89159
TI Catalytic asymmetric synthesis of α -amino phosphonates using
enantioselective carbon-carbon bond-forming reactions
AU Kobayashi, Shu; Kiyohara, Hiroshi; Nakamura, Yoshitaka; Matsubara, Ryosuke
CS Graduate School of Pharmaceutical Sciences, The University of Tokyo,
Bunkyo, Tokyo, Hongo, 113-0033, Japan
SO Journal of the American Chemical Society (2004), 126(21), 6558-6559
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 141:89159
AB A highly enantioselective reactions of silicon enolates with
N-acyl- α -iminophosphonates leading to optically active α -amino
phosphonates was developed. Copper (II)-diamine complex was
effective in this reaction, and high levels of yield and selectivity were
achieved. It is noteworthy that this reaction opens a way to various
biol. important, optically active α -amino phosphonate derivs. Thus,
Cu(OTf)₂/(R,R)-[(α -nap)CH₂NHCHPhCHPhNHCH₂(α -
nap)]/hexafluoroisopropyl alc. (HFIP)/mol. sieve 3A mediated
enantioselective carbon-carbon bond forming reaction of
(EtO)₂P(O)CH:N(Troc) (nap = naphthyl, Troc = 2,2,2-
trichloroethoxycarbonyl) with PhC(:CH₂)(OSiMe₃) gave 86%

(S)-(EtO)2P(O)CH(NH-Troc)CH2COPh with 91% enantioselectivity.
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l17 1 ti fbib abs

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI High turnover frequency observed in catalytic enantioselective additions
of enecarbamates and enamides to iminophosphonates
AN 2006:1079247 CAPLUS
DN 146:8035
TI High turnover frequency observed in catalytic enantioselective additions
of enecarbamates and enamides to iminophosphonates
AU Kiyohara, Hiroshi; Matsubara, Ryosuke; Kobayashi, Shu
CS Graduate School of Pharmaceutical Sciences, University of Tokyo, Tokyo,
Japan
SO Organic Letters (2006), 8(23), 5333-5335
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 146:8035
AB Chiral α -aminophosphonates were prepared by copper
/diamine-catalyzed asym. addition fo enamides to iminomethylphosphonates.
Reaction of (EtO)2POCH:NX (1, X = 2,2,2-trichloroethoxycarbonyl, Troc)
with CH2:C(Ar)NHCbz catalyzed by Cu(OTf)2/(R,R)-
Ar1CH2NHCHPhCHPhNHCH2Ar1 (Ar1 = 1-naphthyl, Ph) afforded chiral
 α -aminophosphonates (EtO)2P(O)CH(NHX)CH2COAr (4a-f, Ar = Ph,
4-MeC6H4, 4-ClC6H4, 2-naphthalenyl, 3-MeC6H4). In the addition reactions,
extremely high turnover frequency of the catalyst was observed in comparison
with that of silicon enolate addition reactions. This is
presumably due to fast transfer of the proton that locates on the
nucleophiles.
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	14.30	392.37
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.60	-1.60

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:54:28 ON 22 JAN 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:17:37 ON 22 JAN 2008
FILE 'CAPLUS' ENTERED AT 10:17:37 ON 22 JAN 2008
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	14.30	392.37
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-1.60	-1.60

=> d his

(FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008)

FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008

L1 STRUCTURE UPLOADED
L2 50 SEARCH L1 SSS SAM
L3 STRUCTURE UPLOADED
L4 1 SEARCH L3 SSS SAM
L5 46 SEARCH L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 08:06:10 ON 22 JAN 2008

L6 226 L5
L7 1261610 COPPER OR CU
L8 20 L6 AND L7
L9 17342 TRIFLATE
L10 6 L8 AND L9

FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008

SAVE TEMP L5 RAWPOS/A
L11 STRUCTURE UPLOADED
L12 50 SEARCH L11 SSS SAM
L13 47480 SEARCH L11 SSS FULL
SAVE TEMP L13 RAWCATS/A

FILE 'CAPLUS' ENTERED AT 08:17:07 ON 22 JAN 2008

L14 16613 L13
L15 0 L6 AND L14
L16 50041 ENOL?
L17 2 L8 AND L16

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	14.78	392.85
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-1.60	-1.60

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:18:09 ON 22 JAN 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'CAPLUS' AT 12:09:34 ON 22 JAN 2008

FILE 'CAPLUS' ENTERED AT 12:09:34 ON 22 JAN 2008

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	14.78	392.85
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-1.60	-1.60
=> logoff hold		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	14.78	392.85
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-1.60	-1.60

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:09:43 ON 22 JAN 2008